

APPENDIX "A"

Services by CONSULTANT

- A. The CONSULTANT shall provide the field survey required for preparation of design plans in conformance with the requirements of the "Survey Manual, Location Surveys, Indiana State Highway Commission", a copy of which is on file with the Indiana Department of Transportation and same is incorporated herein by reference and is made a part hereof.
- B. The CONSULTANT shall make a design study, and prepare a Design Study Report. The study and report shall be developed in accordance with the "Procedure Manual For Preparing Design Study and Location/Design Study Reports" and the "Indiana Public Involvement/Public Hearing Procedures" dated January 7, 1985. Copies of these documents are on file with the Indiana Department of Transportation and they are incorporated herein by reference and are made a part hereof. The CONSULTANT shall set up and hold meetings, when needed, in cooperation with the LOCAL PUBLIC AGENCY, with Local Officials, Planning Agencies or Commissions, and Civic Organizations to determine local feelings and to insure proper coordination with the local populace. The cost estimate shall include separate amounts for relocation, moving and land acquisition costs. The CONSULTANT shall include such costs in the report.

- C. The CONSULTANT shall make a location study, a design study, and prepare a Combined Location - Design Study Report. The studies and report shall be developed in accordance with the "Procedure Manual For Preparing Design Study and Location/Design Study Reports" and the "Indiana Public Involvement/Public Hearing Procedures" dated January 7, 1985. Copies of these documents are on file with the Indiana Department of Transportation and they are incorporated herein by reference and are made a part hereof. The CONSULTANT shall set up and hold meetings, when needed, in cooperation with the LOCAL PUBLIC AGENCY, with Local Officials, Planning Agencies or Commissions, and Civic Organizations to determine local feelings and to ensure proper coordination within the local populace. The cost estimates shall include separate amounts for relocation, moving and land acquisition costs. The CONSULTANT shall include such costs in the report.
- D. The CONSULTANT shall develop and document one of the following types of environmental studies:
1. Categorical Exclusion as falling within the guidelines of the National List of Categorical Exclusions.
 2. Environmental Assessment and information, as necessary for the Federal Highway Administration to prepare the Finding of No Significant Impact (FONSI).
 3. Full Environmental Impact Statement.
- Should it become necessary to document a 4(f), Section 106, or 6(f) involvement the CONSULTANT shall provide such service in accordance with the appropriate procedures and requirements.

If the CONSULTANT is required to provide an environmental service not listed above, the work to provide such additional service shall be considered a major change in the scope of work. The environmental services required to develop this project shall be in accordance with the "Procedure Manual For Preparing Environmental Statements" dated 1986 and revisions thereto. A copy of this document is on file with the Indiana Department of Transportation and is incorporated by reference and is made a part hereof.

- E. The CONSULTANT shall prepare preliminary plans and preliminary estimates of cost, which shall be in accordance with the accepted standards for such work and in accordance with the following documents in effect at the time the plans or reports are submitted: American Association of State Highway and Transportation Officials "A Policy on Geometric Design of Highways and Streets", Indiana Department of Transportation's Standard Specifications, Road and Bridge Memoranda and Road and Bridge Design Manuals except as modified by supplemental specifications and special provisions, if any, and shall be completed to the point required to fulfill the requirements for a Combined Location - Design Public Hearing, no further work shall be done on the plans, unless and until specifically directed by the LOCAL PUBLIC AGENCY.

Following approval of the preliminary plans and notification from the LOCAL PUBLIC AGENCY that Combined - Location Design Approval has been received, the CONSULTANT shall prepare contract plans, special provisions for the specifications, and final cost estimates for the construction of the signs, signals, road and bridge. For bridge

structures, the CONSULTANT shall provide the screed elevations. The cost estimate for construction shall be prepared according to the current practices of the Indiana Department of Transportation and shall include all times of work required for the complete construction of the work, including all temporary work necessary in connection therewith, but shall not include the cost of such items of work for which the LOCAL PUBLIC AGENCY, through its own forces or through other party or parties will prepare detail plans. The unit prices to be used shall be in accordance with the methods used by the Indiana Department of Transportation. The CONSULTANT shall make a study of the possible flood hazards that may be encountered on the project in accordance with Volume 6, Chapter 7, Section 3, Subsection 2 of the Federal-Aid Highway Program Manual entitled "Location and Hydraulic Design of Encroachment of Flood Plains". The CONSULTANT shall attend such conferences with the officials of the State and other interested agencies as may be required in connection with the work and to make his services available to the LOCAL PUBLIC AGENCY during the construction of the work for the interpretation of the plans where disagreement may arise and for consultation during construction in the event unforeseen or unusual conditions arise.

The CONSULTANT shall prepare the necessary Right-of-way Plats #3 in conformance to the requirements of "Requirements for Right-of-way Plats", on aerial mosaics furnished by the LOCAL PUBLIC AGENCY.

A copy of the document is on file with the Indiana Department of Transportation and is incorporated by reference, and is made a part hereof. The CONSULTANT shall furnish the following Right-of-way Plans:

1. One (1) set of Chronoflex or Mylar reproductions of R/W Plans.

2. One (1) tracing reproduction marked "Plat #1" for Design Division
3. Five (5) sets of prints of R/W Plans
4. Three (3) sets of prints of the cross-section sheets
5. Right-of-way Plats #3

Prepare right-of-way plans as outlined in Part 9 of Volume II of the Road Design Manual for the Indiana Department of Transportation. The CONSULTANT shall perform all phases of work described in this Agreement necessary to accomplish the complete design of the project on the basis of an Interstate and/or ABC Highway to be constructed in conformity with the policies and standards set forth in Volume 6, Chapter 2, Section 1, Subsection 1, of the Federal-Aid Highway Program Manual and any subsequent revision thereof, and in conformity with the standards adopted by the American Association of State Highway and Transportation Officials and approved by the Secretary of Transportation.

F. The CONSULTANT shall make or cause to be made a complete roadway geotechnical investigation in accordance with "Requirements for Geotechnical Investigations" dated 1 November 1984. A copy of the document is on file with the Indiana Department of Transportation and same is incorporated herein by reference and is made a part hereof. For bridge structures the CONSULTANT shall make or cause to be made the necessary borings and sub-surface explorations and the analysis thereof in accordance with "General Instructions for Bridge Structure Investigations", dated 1 June 1984, a copy of which is on file with the Indiana Department of Transportation and the document

is incorporated herein by reference and is made a part hereof. Prior to making the borings, the CONSULTANT shall submit boring specifications and boring locations and sketches for each structure for approval of the LOCAL PUBLIC AGENCY. Borings shall extend sufficiently in depth to obtain characteristic data for the proper design of the foundation. The Consultant shall backfill bore hole or cause to be backfilled in accordance with "Aquifer Protection Guidelines" dated December 9, 1987. A copy of the document is on file with the Indiana Department of Transportation, Division of Materials and Tests, Geotechnical section.

G. The CONSULTANT shall make or cause to be made a complete pavement investigation in accordance with "Requirements for Pavement Investigation" dated 26 February 1985. A copy of the document is on file with the Indiana Department of Transportation and it is incorporated herein by reference and is made a part hereof.

H. Upon completion and final Approval of the work by the LOCAL PUBLIC AGENCY, the CONSULTANT shall deliver to the LOCAL PUBLIC AGENCY the following, which shall become the property of the LOCAL PUBLIC AGENCY:

For Road Plans:

1 - Set of final approved tracings of the contract plans drawn to a suitable scale on standard 36" x 23" sheets prepared with the following process: Ink on approved ink medium for all sheets, except cross-sections for computing earthwork quantities. The cross-sections shall be on approved cross-section paper, in ink.

1 - Set (original) of all survey field notes (Transit & Level

Notes, section plats, and sub-division plats for all surveys the CONSULTANT has performed on the project. The field notes are to be in approved Engineer Field Books.

For Bridge Plans:

1 - Set of final approved tracings of the contract plans drawn to a suitable scale on standard 36" x 23" sheets prepared with the following process: Ink on approved ink medium for the Title Sheet, and Summary sheet. All other sheets, except cross-sections for computing earthwork quantities, to be pencil on approved pencil medium. The cross-sections for computing earthwork quantities shall be on approved cross-section paper, in ink.

For Both Road and Bridge Plans:

1 - Set of Special Provisions for the Specifications

1 - Copy of the construction cost estimate

1 - Copy of all design computations, Indexed, Paged and Bound

If an electronic computer is used in making his computations, the CONSULTANT shall furnish the following basic information :

1. Type of Computer

2. Name of Program

a. If library program is used, furnish code, title and write-up of the program

b. If program is developed by the CONSULTANT, give a detailed write-up (including the name of the method of mathematical and - structural analysis)

3. All listed output data should be titled and described

4. Decimal points in fixed point system should be properly placed.

The CONSULTANT shall deliver to the LOCAL PUBLIC AGENCY the following documents:

<u>Items</u>	<u>Draft Copies For Review</u>	<u>Completed Copies</u>
Combined Location - Design Study Report	5	10
Exhibits for Combined - Design Public Hearing		3
Documentation of National List of		
Categorical Exclusion	2	10
Environmental Assessment	5	20

Additional general data shall be issued at the mutual agreement of the CONSULTANT and the LOCAL PUBLIC AGENCY.

I. In fulfillment of this Agreement the CONSULTANT shall comply with the requirements of the appropriate regulations and requirements of the Indiana Department of Transportation and Federal Highway Administration.

APPENDIX "B"

Information and Services to be furnished by LOCAL PUBLIC AGENCY

The LOCAL PUBLIC AGENCY shall furnish the CONSULTANT with the following:

1. Transcript of any Public Hearing to be held by the LOCAL PUBLIC AGENCY
2. Criteria for design and details for signs, signals highway and structures such as grades, curves, sight distances, clearance, design loading, etc.
3. Specifications and standard drawings applicable to the project
4. Plans of existing bridge within the project limits
5. All written views pertinent to the location and environmental studies that are received by the LOCAL PUBLIC AGENCY
6. Relocation and land acquisition costs
7. Traffic assignments
8. Available data from the transportation planning process
9. Utility plans available to the LOCAL PUBLIC AGENCY covering utility facilities governing the location of signals and underground conduits throughout the affected areas
10. Guarantee access to enter upon public and private lands as required for the CONSULTANT to perform work under this Agreement.
11. Existing ambient air quality data available from the State and Local Air Pollution Control Agency
12. Existing water quality data
13. Ambient noise measurements and computer noise analyses

APPENDIX "C"

Schedule

All work by the Consultant under this agreement shall be completed and delivered to the LOCAL PUBLIC AGENCY no later than _____ calendar days after the notification to proceed from the LOCAL PUBLIC AGENCY, exclusive of LOCAL PUBLIC AGENCY'S review time.

For the purpose of contract control the work will be submitted by the CONSULTANT to the LOCAL PUBLIC AGENCY for review and approval within the following approximate time periods:

A. Field Survey

1. Field Books for Preliminary Review within _____ calendar days after receipt of notice to proceed with the field survey
2. Final within _____ calendar days after receipt from the LOCAL PUBLIC AGENCY of comments following the preliminary review

B. Combined Location - Design Study Report

1. Preliminary Draft at the time of submission of Preliminary Field Check Plans
2. Draft at the time of submission of Combined Location - Design Hearing Plans
3. Final Draft at time of request for Combined Location - Design approval

C. Environmental Services

1. Documentation of National List of Categorical Exclusions
 - a. Initial submittal of documentation within _____ days of notice to proceed from the LOCAL PUBLIC AGENCY. (If early coordination is provided to CONSULTANT by the LOCAL PUBLIC AGENCY the initial submittal of documentation will be

submitted within 60 days of notice to proceed from the LOCAL PUBLIC AGENCY.)

- b. Revised documentation within _____ calendar days after receipt of comments from the LOCAL PUBLIC AGENCY on the initial submittal.
- c. Any necessary revisions within _____ calendar days after receipt of Federal Highway Administration comments on the documentation.
- d. Furnish copies of the approved documentation within _____ calendar days after receipt of Federal Highway Administration concurrence on the documentation.

2. Environmental Assessment

- a. Preliminary submittal of the Environmental Assessment within _____ days of notice to proceed by the LOCAL PUBLIC AGENCY.
- b. Revised Environmental Assessment within _____ calendar days after receipt of comments from the LOCAL PUBLIC AGENCY on the preliminary submittal of the Environmental Assessment.
- c. Any necessary revisions within _____ calendar days after receipt of Federal Highway Administration comments on the Environmental Assessment.
- d. Furnish copies of the approved Environmental Assessment within _____ calendar days after receipt of Federal Highway Concurrence in the Environmental Assessment.
- e. Furnish information necessary to prepare FONSI within _____ calendar days after receipt from the LOCAL PUBLIC AGENCY of comments of the Environmental Assessment

and/or transcript of the Public Hearings or summary of a public information meeting.

3. Full Environmental Impact Statement

- a. Preliminary Draft EIS within _____ calendar days after notice to proceed from the LOCAL PUBLIC AGENCY.
- b. Draft EIS within _____ calendar days after receipt of comments from the LOCAL PUBLIC AGENCY on the preliminary Draft EIS.
- c. Revised Draft EIS within _____ calendar days after receipt of Federal Highway Administration comments of the Draft EIS.
- d. Furnish required copies of the approved Draft EIS within 14 calendar days after receipt of the Federal Highway Administration's adoption of the Draft EIS for circulation.
- e. Furnish preliminary Final EIS within _____ calendar days after receipt of all comments on the Draft EIS and receipt of the transcript of the public hearing.
- f. Revised Final EIS within _____ calendar days after receipt of either LOCAL PUBLIC AGENCY or Federal Highway Administration comments on the Final EIS.
- g. Furnish required copies of the Final EIS for legal sufficiency review, etc., within _____ calendar days of notice from the LOCAL PUBLIC AGENCY.
- h. Furnish required copies of the Final EIS, after Federal Highway Administration Region Approval, within _____ calendar days of notice from the LOCAL PUBLIC AGENCY.

D. Roadway Design and Right-of-Way Plans

- * 1. Preliminary Plan Details within _____ calendar days after receipt from the LOCAL PUBLIC AGENCY of notice to proceed

with design

2. Grade Review within 60 calendar days after receipt from the LOCAL PUBLIC AGENCY notice to proceed with design
3. Preliminary Field Check Plans within _____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of the Grade Review Plans
4. Combined Location - Design Hearing Plans within _____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of the Preliminary Field Check Plans
- * 5. Drainage Design complete within _____ calendar days after notification from the LOCAL PUBLIC AGENCY that location - design approval has been received
6. Right-of-way check prints within _____ calendar days after notification from the LOCAL PUBLIC AGENCY that location - design approval has been received
- * 7. Grade and Earthwork finalized within _____ calendar days after notification from the LOCAL PUBLIC AGENCY that location - design approval has been received
8. Final Field Check Plans within _____ calendar days after notification from the LOCAL PUBLIC AGENCY that location - design approval has been received.
9. Right-of-Way Tracings within _____ calendar days after approval of Right-of-Way check prints and Final Field Check Plans
10. Final Contract Plans for Preliminary Review within _____ calendar days after approval of Final Field Check Plans.
11. Final Tracings with Cost Estimates and Special Provisions within _____ calendar days after receipt from the LOCAL PUBLIC

AGENCY of approval of preliminary review of final plans.

E. Bridge Design

1. Preliminary Plan Details within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of notice to proceed with design
2. Grade Review and Structure Type Selection within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of notice to proceed with design
3. Structure Size and Type Plans within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of Grade Review and Structure Type Selection
4. Field Check Plans within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of Structure Size and Type Plans
5. Plans for Combined - Location Design Hearing within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of the Field Check Plans
6. Preliminary Plans for final approval within ____ calendar days after notification from the LOCAL PUBLIC AGENCY that Combined - Location Design Hearing approval has been received
- * 7. Superstructure Plans within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of Preliminary Plans.
- * 8. Substructure Plans within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of Preliminary Plans.
9. Final Contract Plans for Preliminary Review within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of Preliminary Plans.

10. Final Tracings with Cost Estimates and Special Provisions within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of Preliminary Plans.

F. Bridge Design and Right-of-Way Plans

1. Preliminary Plans Details within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of notice to proceed with design.
2. Grade Review and Structure Type Selection within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of notice to proceed with design.
3. Structure Size and Type Plans within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of Grade Review and Structure Type Selection.
4. Field Check Plans within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of the Structure Size and Type Plans.
5. Plan for Combined - Location Design Hearing and Right-of-Way check prints within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of the Field Check Plans.
6. Preliminary Plans for final approval within ____ calendar days after notification from the LOCAL PUBLIC AGENCY that Combined - Location Design Hearing approval has been received.
7. Final Right-of-Way Tracing within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of Preliminary Plans and including R/W check print approval.
- * 8. Superstructure Plans within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of Preliminary Plans

- * 9. Substructure Plans within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of Preliminary Plans
- 10. Final Contract Plans for Preliminary Review within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of Preliminary Plans
- 11. Final Tracings with Cost Estimates and Special provisions within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of preliminary review of final plans

G. Soils Investigation and Reports

No later than the time set out above for submission of preliminary plans for final approval.

NOTE: Asterisk (*) indicates submission to LOCAL PUBLIC AGENCY not required.

The schedule set out herein are for each structure. The work on a structure does not need to run concurrently with any other structure included in this agreement.

APPENDIX "D"

Compensation

A. Amount of Payment

1. The CONSULTANT shall receive as payment for the work performed under this Agreement the total fee not to exceed \$_____, unless a modification of the Agreement is approved in writing by the LOCAL PUBLIC AGENCY and the Indiana Department of Transportation.

2. The CONSULTANT will be paid for the work performed under this Agreement, excluding the geotechnical services and pavement investigation services, on a lump sum basis in accordance with the following schedule:

- | | |
|--|----------|
| a. Survey | \$ _____ |
| b. <u>Design Study and Report</u> | _____ |
| c. Combined Location - Design Study | _____ |
| d. Environmental Services | |
| (1) Categorical Exclusion | _____ |
| OR | |
| (2) Environmental Assessment FONSI | _____ |
| OR | |
| (3) Environmental Impact Statement | _____ |
| (4) Public Hearing Hours | _____ |
| (5) Archaeological reconnaissance | _____ |
| e. Road Design and Plans (including R/W Plans) | _____ |

- f. Bridge Design and Plans (including
R/W plans)

g. Plat #3

h. Signs

i. Signals

j. Warrant Studies

The CONSULTANT shall not be paid for any service performed by the LOCAL PUBLIC AGENCY or not required to develop this project.

3. The CONSULTANT shall receive as payment for the work performed under this Agreement related to geotechnical services based on the specific cost per unit multiplied by the actual units of work performed.

- a. Geotechnical boring and sampling, as set out herein, will be paid for each of the following items:

	<u>Quantity</u>	<u>Unit Price</u>	<u>Total</u>
1. Hand Borings	_____ lft	@ _____	\$ _____
2. Truck mounted borings with 2' auger head	_____ lft	@ _____	\$ _____
3. Skid mounted borings Rd. _____ lft with 2' auger head Br. _____ lft		@ _____	\$ _____
4. Truck mounted borings with Split-spoon sampling Rd. _____ lft Br. _____ lft		@ _____	\$ _____
5. Skid mounted borings with Split-Spoon sampling Rd. _____ lft Br. _____ lft		@ _____	\$ _____
6. Truck mounted rock core borings Rd. _____ lft Br. _____ lft		@ _____	\$ _____

- | | | | | |
|-----|---|---------------|---------------|----------|
| 7. | Skid mounted rock core borings | Rd. _____ 1ft | | |
| | | Br. _____ 1ft | @ _____ | \$ _____ |
| 8. | Truck mounted borings through Bedrock or Boulders | _____ 1ft | @ _____ | \$ _____ |
| 9. | Skid mounted borings through Bedrock or Boulders | _____ 1ft | @ _____ | \$ _____ |
| 10. | Soundings | _____ 1ft | @ _____ | \$ _____ |
| 11. | Casing | _____ 1ft | @ _____ | \$ _____ |
| 12. | Bag Samples | _____ ea | @ _____ | \$ _____ |
| 13. | 2-inch undisturbed samples | _____ ea | @ _____ | \$ _____ |
| 14. | 3-inch undisturbed samples | _____ ea | @ _____ | \$ _____ |
| 15. | 3-inch undisturbed samples with stationary piston sampler | _____ ea | @ _____ | \$ _____ |
| 16. | Additional Split-Spoon samples | _____ ea | @ _____ | \$ _____ |
| 17. | Floating equipment for machine borings | _____ LS | @ _____ | \$ _____ |
| 18. | Floating equipment for hand borings | _____ LS | @ _____ | \$ _____ |
| 19. | Remobilization | _____ LS | @ _____ | \$ _____ |
| 20. | Mobilization | _____ ea | @ _____ | \$ _____ |
| 21. | Special Backfillings of Boreholes | | | |
| | a. 10 to 30 ft. deep | _____ LS | @ _____ | \$ _____ |
| | b. More than 30 feet deep | _____ LF | @ _____ | \$ _____ |
| 22. | Railroad Expenses | | \$actual cost | \$ _____ |
- b. Geotechnical laboratory testing, as set out herein, shall be paid for each of the following items:
- | | | | | |
|----|----------------|----------|---------|----------|
| 1. | Sieve Analysis | _____ ea | @ _____ | \$ _____ |
|----|----------------|----------|---------|----------|

2.	Hydrometer Analysis	_____ea	@_____	\$_____
3.	Liquid Limit	_____ea	@_____	\$_____
4.	Plastic Limit & Plasticity Index	_____ea	@_____	\$_____
5.	Shrinkage Limit	_____ea	@_____	\$_____
6.	pH Test	_____ea	@_____	\$_____
7.	Standard Moisture - Density Relations	_____ea	@_____	\$_____
8.	California Bearing Ratio	_____ea	@_____	\$_____
9.	Moisture Content Test	_____ea	@_____	\$_____
10.	Unit Weight Determination	_____ea	@_____	\$_____
11.	Consolidation Test	_____ea	@_____	\$_____
12.	Unconfined Compression Test	_____ea	@_____	\$_____
13.	Unconsolidated Undrained Triaxial Test	_____ea	@_____	\$_____
14.	Consolidated, UnDrained Triaxial Test	_____ea	@_____	\$_____
15.	Consolidated, Drained Triaxial Test	_____ea	@_____	\$_____
16.	Pore Pressure Measurements for Triaxial Test	_____ea	@_____	\$_____
17.	Direct Shear Test	_____ea	@_____	\$_____
18.	Loss on Ignition	_____ea	@_____	\$_____

c. Geotechnical engineering, as set out herein, shall be paid for each of the following items:

1.	Settlement Analysis	_____ea	@_____	\$_____
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2.	Sand Drain Analysis	_____ ea	@ _____	\$ _____
3.	Sliding Block Slope Stability Analysis	_____ ea	@ _____	\$ _____
	a. O = O Analysis	_____ ea	@ _____	\$ _____
	b. C = O or C & O Analysis	_____ ea	@ _____	\$ _____
	c. Corrective Measures	_____ ea	@ _____	\$ _____
	d. Stage Construction Corrective Measure	_____ ea	@ _____	\$ _____
4.	Rotational Slope Stability Analysis			
	a. O = O Analysis	_____ ea	@ _____	\$ _____
	b. C = O or C & O Analysis	_____ ea	@ _____	\$ _____
	c. Corrective Measures	_____ ea	@ _____	\$ _____
	d. Stage Construction Corrective Measure	_____ ea	@ _____	\$ _____
5.	Bridge Foundation Analysis			
	a. 3 or less spans	_____ ea	@ _____	\$ _____
	b. 4 to 9 spans	_____ ea	@ _____	\$ _____
	c. 10 or more spans	_____ ea	@ _____	\$ _____
6.	Retainage Structure Analysis			
	a. Shallow Foundation	_____ ea	@ _____	\$ _____
	b. Deep Foundation	_____ ea	@ _____	\$ _____
7.	Field Geotechnical Engineer	_____ days	@ _____	\$ _____
8.	Geotechnical Report without soil Subgrade Investigation	_____ LS	@ _____	\$ _____
9.	Geotechnical Report with soil Subgrade Investigation	_____ LS	@ _____	\$ _____
TOTAL				\$ _____

b. The amount of \$ _____, is an estimate of the cost which the CONSULTANT will incur in fulfilling the requirements of section F of Appendix "A". The final

amount will be adjusted according to the actual units of work performed; however, the final amount shall not exceed \$_____ unless and until a supplemental agreement is executed.

4. The CONSULTANT shall receive as payment for the work under this agreement related to pavement investigation based on the specific cost per unit multiplied by the actual units of work performed.

- | | | | | |
|----|--|----|---------|----------|
| a. | Pavement core,
partial depth _____ | ea | @ _____ | \$ _____ |
| b. | Pavement core,
full depth _____ | ea | @ _____ | \$ _____ |
| c. | Concrete core density
determination _____ | ea | @ _____ | \$ _____ |
| d. | Concrete core compressive
strength test _____ | ea | @ _____ | \$ _____ |
| e. | Bituminous extraction
test _____ | ea | @ _____ | \$ _____ |
| f. | Sieve analysis
of extracted
aggregate test _____ | ea | @ _____ | \$ _____ |
| g. | Recovery of
asphalt from
solution by
Abson Method _____ | ea | @ _____ | \$ _____ |
| h. | Asphalt
penetration
test _____ | ea | @ _____ | \$ _____ |
| i. | Asphalt
viscosity
test _____ | ea | @ _____ | \$ _____ |
| j. | Asphalt
recycling
analysis _____ | ea | @ _____ | \$ _____ |

k. Pavement analysis _____ ea @ _____ \$ _____

The amount of \$ _____, is an estimate of the cost which the CONSULTANT will incur in fulfilling the requirements of Section G of Appendix "A". The final amount will be adjusted according to the actual units of work performed; however, the final amount shall not exceed \$ _____ unless and until a supplemental agreement is executed.

B. Method of Payment

1. The CONSULTANT may submit a maximum of one invoice voucher per calendar month for work covered under this Agreement. The invoice voucher shall be submitted to the LOCAL PUBLIC AGENCY.

The invoice voucher shall represent the value, to the LOCAL PUBLIC AGENCY, of the partially completed work as of the date of the invoice voucher. The CONSULTANT shall attach thereto a summary of each pay item in Section A2 of this Appendix, percentage completed and prior payments.

2. The LOCAL PUBLIC AGENCY, for and in consideration of the rendering of the engineering services provided for in Section B, Section C, Section D, Section E, Section F and Section H of Appendix "A", agrees to pay to the CONSULTANT for rendering such services the fees established above in the following manner:

- a. For completed work, and upon receipt of invoices from the CONSULTANT and the approval thereof by the LOCAL PUBLIC AGENCY, payments covering the work performed

shall be due and payable to the CONSULTANT.

From the partial payment thus computed, there shall be deducted all previous partial fee payments made to the CONSULTANT.

3. The LOCAL PUBLIC AGENCY for and in consideration of the rendering of the engineering services provided for in Section A and Section G of Appendix "A", agrees to pay the CONSULTANT for rendering such services the fee established above upon completion of the work thereunder and acceptance thereof by the LOCAL PUBLIC AGENCY.
4. In the event of a substantial change in the scope, character or complexity of the work on the project, the maximum fee payable and the specified fee shall be adjusted in accordance with item 12, (changes in work) of the General Provisions, set out in this Agreement.